

OIKE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/932,613

DATE: 09/06/2001

TIME: 14:59:09

Input Set : A:\DYX25seq.txt

Output Set: N:\CRF3\09062001\I932613.raw

3 <110> APPLICANT: Human Genome Sciences, Inc.  
 4 Beltzer, James P.  
 5 Potter, M. Daniel  
 6 Fleming, Tony J.  
 7 Rosen, Craig A.  
 9 <120> TITLE OF INVENTION: BINDING POLYPEPTIDES AND METHODS BASED THEREON  
 11 <130> FILE REFERENCE: Dyx-025.1 PCT; DYX-025.1 US  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/932,613  
 14 <141> CURRENT FILING DATE: 2001-08-17  
 16 <160> NUMBER OF SEQ ID NOS: 458  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 13  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: BLYS binding polypeptide  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: MISC\_FEATURE  
 30 <222> LOCATION: (1)..(1)  
 31 <223> OTHER INFORMATION: X1 is Ala, Asn, Lys, or Ser;  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: MISC\_FEATURE  
 36 <222> LOCATION: (2)..(2)  
 37 <223> OTHER INFORMATION: X2 is Ala, Glu, Met, Ser, or Val;  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: MISC\_FEATURE  
 42 <222> LOCATION: (3)..(3)  
 43 <223> OTHER INFORMATION: X3 is Ala, Asn, Lys, or Pro (preferably Lys);  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: MISC\_FEATURE  
 48 <222> LOCATION: (5)..(5)  
 49 <223> OTHER INFORMATION: X5 is Phe, Trp, or Tyr (preferably Tyr);  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: MISC\_FEATURE  
 54 <222> LOCATION: (7)..(7)  
 55 <223> OTHER INFORMATION: X7 is Pro or Tyr (preferably Pro);  
 58 <220> FEATURE:  
 59 <221> NAME/KEY: MISC\_FEATURE  
 60 <222> LOCATION: (11)..(11)  
 61 <223> OTHER INFORMATION: X11 is Ala, Gln, His, Phe, or Val;  
 64 <220> FEATURE:  
 65 <221> NAME/KEY: MISC\_FEATURE  
 66 <222> LOCATION: (12)..(12)  
 67 <223> OTHER INFORMATION: X12 is Asn, Gln, Gly, His, Ser, or Val;  
 70 <220> FEATURE:  
 71 <221> NAME/KEY: MISC\_FEATURE

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72 <222> LOCATION: (13)..(13)  
 73 <223> OTHER INFORMATION: X13 is Ala, Asn, Gly, Ile, Pro, or Ser,  
 76 <400> SEQUENCE: 1  
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 79 1 5 10  
 82 <210> SEQ ID NO: 2  
 83 <211> LENGTH: 14  
 84 <212> TYPE: PRT  
 85 <213> ORGANISM: Artificial Sequence  
 87 <220> FEATURE:  
 88 <223> OTHER INFORMATION: BLYS binding polypeptide  
 90 <220> FEATURE:  
 91 <221> NAME/KEY: MISC\_FEATURE  
 92 <222> LOCATION: (1)..(1)  
 93 <223> OTHER INFORMATION: X1 is Ala, Asp, Gln, Glu, Gly, His, Ile, Leu, Lys, Met, Phe,  
 Pro,  
 94 Ser, Thr, Trp, Tyr, Val, or is absent;  
 97 <220> FEATURE:  
 98 <221> NAME/KEY: MISC\_FEATURE  
 99 <222> LOCATION: (2)..(2)  
 100 <223> OTHER INFORMATION: X2 is Ala, Asn, Asp, Gln, Gly, His, Ile, Leu, Lys, Met, Phe,  
 Pro,  
 101 Ser, Thr, Trp, Tyr, or Val;  
 104 <220> FEATURE:  
 105 <221> NAME/KEY: MISC\_FEATURE  
 106 <222> LOCATION: (3)..(3)  
 107 <223> OTHER INFORMATION: X3 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Ile, Leu, Lys,  
 Met,  
 108 Phe, Pro, Ser, Trp, Tyr, or Val (preferably Asp);  
 111 <220> FEATURE:  
 112 <221> NAME/KEY: MISC\_FEATURE  
 113 <222> LOCATION: (5)..(5)  
 114 <223> OTHER INFORMATION: X5 is Asp, Ile, Leu, or Tyr (preferably Asp or Leu);  
 117 <220> FEATURE:  
 118 <221> NAME/KEY: MISC\_FEATURE  
 119 <222> LOCATION: (6)..(6)  
 120 <223> OTHER INFORMATION: X6 is Arg, Asp, Glu, His, Ile, Leu, Lys, Phe, Pro, Tyr, or  
 Val (  
 121 preferably Glu or Leu);  
 124 <220> FEATURE:  
 125 <221> NAME/KEY: MISC\_FEATURE  
 126 <222> LOCATION: (7)..(7)  
 127 <223> OTHER INFORMATION: X is His, Leu, Lys, or Phe  
 130 <220> FEATURE:  
 131 <221> NAME/KEY: MISC\_FEATURE  
 132 <222> LOCATION: (8)..(8)  
 133 <223> OTHER INFORMATION: X is Leu, Pro, or Thr  
 136 <220> FEATURE:  
 137 <221> NAME/KEY: MISC\_FEATURE  
 138 <222> LOCATION: (9)..(9)  
 139 <223> OTHER INFORMATION: X is Arg, Asn, Gly, His, Ile, Lys, Met, or Trp  
 142 <220> FEATURE:  
 143 <221> NAME/KEY: MISC\_FEATURE

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Input Set : A:\DYX25seq.txt

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144 <222> LOCATION: (10)..(10)  
 145 <223> OTHER INFORMATION: X10 is Ala, Gln, Glu, Gly, His, Ile, Leu, Met, Phe, Ser,  
 Trp, Tyr  
 146 , or Val;  
 149 <220> FEATURE:  
 150 <221> NAME/KEY: MISC\_FEATURE  
 151 <222> LOCATION: (12)..(12)  
 152 <223> OTHER INFORMATION: X12 is Asp, Gln, Glu, Gly, Ile, Leu, Lys, Phe, Ser, Trp,  
 Tyr, or  
 153 Val;  
 156 <220> FEATURE:  
 157 <221> NAME/KEY: MISC\_FEATURE  
 158 <222> LOCATION: (13)..(13)  
 159 <223> OTHER INFORMATION: X13 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Leu, Lys,  
 Met, Phe  
 160 , Pro, Ser, Thr, Trp, Tyr, or Val;  
 163 <220> FEATURE:  
 164 <221> NAME/KEY: MISC\_FEATURE  
 165 <222> LOCATION: (14)..(14)  
 166 <223> OTHER INFORMATION: X14 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Ile, Leu,  
 Lys, Phe  
 167 , Pro, Trp, Tyr, Val, or is absent  
 170 <400> SEQUENCE: 2  
 172 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
 173 1 5 10  
 176 <210> SEQ ID NO: 3  
 177 <211> LENGTH: 15  
 178 <212> TYPE: PRT  
 179 <213> ORGANISM: Artificial Sequence  
 181 <220> FEATURE:  
 182 <223> OTHER INFORMATION: BLyS binding polypeptide  
 184 <220> FEATURE:  
 185 <221> NAME/KEY: MISC\_FEATURE  
 186 <222> LOCATION: (1)..(1)  
 187 <223> OTHER INFORMATION: X1 is Ala, Arg, Asn, Asp, Leu, Lys, Phe, Pro, Ser, or Thr;  
 190 <220> FEATURE:  
 191 <221> NAME/KEY: MISC\_FEATURE  
 192 <222> LOCATION: (2)..(2)  
 193 <223> OTHER INFORMATION: X2 is Asn, Asp, Gln, His, Ile, Lys, Pro, Thr, or Trp;  
 196 <220> FEATURE:  
 197 <221> NAME/KEY: MISC\_FEATURE  
 198 <222> LOCATION: (3)..(3)  
 199 <223> OTHER INFORMATION: X3 is Ala, Arg, Asn, Gln, Glu, His, Phe, Pro, or Thr  
 (preferably  
 200 Ala);  
 203 <220> FEATURE:  
 204 <221> NAME/KEY: MISC\_FEATURE  
 205 <222> LOCATION: (5)..(5)  
 206 <223> OTHER INFORMATION: X5 is Asn, Asp, Pro, Ser, or Thr (preferably Asp);  
 209 <220> FEATURE:  
 210 <221> NAME/KEY: MISC\_FEATURE  
 211 <222> LOCATION: (6)..(6)  
 212 <223> OTHER INFORMATION: X6 is Arg, Asp, Ile, Leu, Met, Pro, or Val (preferably Ile);

215 <220> FEATURE:

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Input Set : A:\DYX25seq.txt

Output Set: N:\CRF3\09062001\I932613.raw

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216 <221> NAME/KEY: MISC_FEATURE
217 <222> LOCATION: (7)..(7)
218 <223> OTHER INFORMATION: X7 is Ala, Ile, Leu , Pro, Thr, or Val (preferably Val or
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221 <220> FEATURE:
222 <221> NAME/KEY: MISC_FEATURE
223 <222> LOCATION: (8)..(8)
224 <223> OTHER INFORMATION: X8 is Asn, His, Ile, Leu, Lys, Phe, or Thr (preferably Thr);
227 <220> FEATURE:
228 <221> NAME/KEY: MISC_FEATURE
229 <222> LOCATION: (9)..(9)
230 <223> OTHER INFORMATION: X9 is Asn, Glu, Gly, His, Leu, Lys, Met, Pro, or Thr
(preferably
231     Leu);
234 <220> FEATURE:
235 <221> NAME/KEY: MISC_FEATURE
236 <222> LOCATION: (10)..(10)
237 <223> OTHER INFORMATION: X10 is Arg, Asn, Asp, Gln, Glu, Gly, Ile, Lys, Met, Pro,
Ser, or
238     Trp;
241 <220> FEATURE:
242 <221> NAME/KEY: MISC_FEATURE
243 <222> LOCATION: (11)..(11)
244 <223> OTHER INFORMATION: X11 is Arg, Glu, Gly, Lys, Phe, Ser, Trp, or Tyr (preferably
Ser)
245     ;
248 <220> FEATURE:
249 <221> NAME/KEY: MISC_FEATURE
250 <222> LOCATION: (13)..(13)
251 <223> OTHER INFORMATION: X13 is Gln, Glu, Ile, Leu, Phe, Pro, Ser, Tyr, or Val
(preferably
252     Val);
255 <220> FEATURE:
256 <221> NAME/KEY: MISC_FEATURE
257 <222> LOCATION: (14)..(14)
258 <223> OTHER INFORMATION: X14 is Asn, Gly, Ile, Phe, Pro, Thr, Trp, or Tyr;
261 <220> FEATURE:
262 <221> NAME/KEY: MISC_FEATURE
263 <222> LOCATION: (15)..(15)
264 <223> OTHER INFORMATION: X15 is Asn, Asp, Glu, Leu, Lys, Met, Pro, or Thr (preferably
Glu
265     or Pro),
268 <400> SEQUENCE: 3
270 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
271 1      .      5      10      15
274 <210> SEQ ID NO: 4
275 <211> LENGTH: 16
276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: BLys binding polypeptide
282 <220> FEATURE:
283 <221> NAME/KEY: MISC_FEATURE

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284 <222> LOCATION: (1)..(1)

285 <223> OTHER INFORMATION: X1 is Asn, Asp, His, Leu, Phe, Pro, Ser, Tyr, or is absent  
(prefe

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 PATENT APPLICATION: US/09/932,613

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```

286      rably Ser);
289 <220> FEATURE:
290 <221> NAME/KEY: MISC_FEATURE
291 <222> LOCATION: (2)..(2)
292 <223> OTHER INFORMATION: X2 is Arg, Asn, Asp, His, Phe, Ser, or Trp (preferably Arg);
295 <220> FEATURE:
296 <221> NAME/KEY: MISC_FEATURE
297 <222> LOCATION: (3)..(3)
298 <223> OTHER INFORMATION: X3 is Asn, Asp, Leu, Pro, Ser, or Val (preferably Asn or
Asp);
301 <220> FEATURE:
302 <221> NAME/KEY: MISC_FEATURE
303 <222> LOCATION: (5)..(5)
304 <223> OTHER INFORMATION: X5 is Asp, Gln, His, Ile, Leu, Lys, Met, Phe, or Thr;
307 <220> FEATURE:
308 <221> NAME/KEY: MISC_FEATURE
309 <222> LOCATION: (6)..(6)
310 <223> OTHER INFORMATION: X6 is His, Ile, Leu, Met, Phe, Pro, Trp, or Tyr;
313 <220> FEATURE:
314 <221> NAME/KEY: MISC_FEATURE
315 <222> LOCATION: (7)..(7)
316 <223> OTHER INFORMATION: X7 is Asp, His, Leu, or Ser (preferably Asp);
319 <220> FEATURE:
320 <221> NAME/KEY: MISC_FEATURE
321 <222> LOCATION: (8)..(8)
322 <223> OTHER INFORMATION: X8 is Ala, Arg, Asp, Glu, Leu, Phe, Pro, or Thr (preferably
Glu o
323      r Pro);
326 <220> FEATURE:
327 <221> NAME/KEY: MISC_FEATURE
328 <222> LOCATION: (9)..(9)
329 <223> OTHER INFORMATION: X9 is Ala, Arg, Asn, or Leu (preferably Leu);
332 <220> FEATURE:
333 <221> NAME/KEY: MISC_FEATURE
334 <222> LOCATION: (10)..(10)
335 <223> OTHER INFORMATION: X10 is Ile, Leu, Met, Pro, Ser, or Thr (preferably Thr);
338 <220> FEATURE:
339 <221> NAME/KEY: MISC_FEATURE
340 <222> LOCATION: (11)..(11)
341 <223> OTHER INFORMATION: X11 is Ala, Arg, Asn, Gly, His, Lys, Ser, or Tyr;
344 <220> FEATURE:
345 <221> NAME/KEY: MISC_FEATURE
346 <222> LOCATION: (12)..(12)
347 <223> OTHER INFORMATION: X12 is Ala, Arg, Asn, Gln, Leu, Met, Ser, Trp, Tyr, or Val;
350 <220> FEATURE:
351 <221> NAME/KEY: MISC_FEATURE
352 <222> LOCATION: (14)..(14)
353 <223> OTHER INFORMATION: X14 is Asp, Gly, Leu, Phe, Tyr, or Val (preferably Leu);
356 <220> FEATURE:
357 <221> NAME/KEY: MISC_FEATURE
358 <222> LOCATION: (15)..(15)

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Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/932,613

DATE: 09/06/2001  
TIME: 14:59:10

Input Set : A:\DYX25seq.txt  
Output Set: N:\CRF3\09062001\I932613.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:1174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:2554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112  
L:2574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113  
L:2650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118  
L:2768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126  
L:2816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129  
L:2878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133  
L:2926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136  
L:2960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138  
L:3000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140  
L:3032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141  
L:3058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142  
L:3084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143  
L:3104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144  
L:3136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145  
L:3198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149  
L:3246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152  
L:3328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157  
L:3360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158  
L:3392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159  
L:3432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161  
L:3464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162  
L:3646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172  
L:4417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185  
L:8241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:8311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:447  
L:8361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448